

STATUS OF THE CLAIMS

1. (Currently Amended) An apparatus for loading at least one of a plurality of bags and a plurality of netting packages into a container, wherein the apparatus comprises:

a feed conveyor assembly;

a loading unit including:

a holder that is movable up and down, the holder being sized to receive and to hold at least one of the plurality of bags and the plurality of netting packages and to be substantially fittingly receivable in the container,

at least one pressure-controlled air cylinder that is movable up and down and structured and arranged to carry substantially all of the weight of the holder and at least one of the plurality of bags and the plurality of netting packages disposed in said holder when lowering said holder into said container, and

a drive unit having elements that are ~~that is~~ movable up and down, the drive unit ~~and that is~~ structured and arranged:

to control a vertical position of said holder,

to carry a portion of the weight of the holder and said at least one of the plurality of bags and the plurality of netting packages when lowering said holder and said at least one of the plurality of bags and the plurality of netting packages into said container,

to carry all of the weight of said holder when raising said holder from inside said container, and

to determine, when lowering said holder into said container, when a portion of the weight of said holder and said at least one of the plurality of bags and the plurality of netting packages has been transferred to the container or to an object in the container by sensing a weight change; and

control means for forming a layer of bags in the loading unit, the layer having dimensions substantially corresponding to at least one bottom dimension of the container to be loaded,

wherein the control means is adapted to control the loading unit to place the layer by moving the holder down by activating the at least one pressure-controlled air cylinder and the drive unit when lowering the holder into said container to be loaded and by activating the drive unit when removing the holder..

2. (Previously Presented) An apparatus according to claim 1, wherein the feed conveyor assembly comprises a first rotating system and a second rotating system arranged one behind the other, wherein each of the first rotating system and the second rotating system comprises two parallel running conveyor belts which are drivable at different speeds in order to rotate the bags in a plane parallel to said running conveyor belts.

3. (Previously Presented) An apparatus according to claim 2, wherein the control means rotates a bag through a first angle of 45 degrees with respect to an orientation of the bag in the layer on the first rotating system and to rotate it through an additional angle of 45 degrees with respect to the first angle of 45 degrees on the second rotating system, wherein the control

means further provides the first rotating system, during a processing of a preceding bag on the second rotating system, with signals for handling a following bag on the first rotating system.

4. (Previously Presented) An apparatus according to claim 1, wherein the feed conveyor assembly further includes a plurality of conveyors arranged so as to be movable up and down by at least one end, so that successive bags can be stacked in an overlapping manner.

5. (Previously Presented) An apparatus according to claim 1, wherein the feed conveyor assembly is provided with a stop against which the bags butt after the bags have been conveyed over the feed conveyor assembly in a first conveying direction, wherein, viewed in the first conveying direction, upstream of the stop, the apparatus includes a transfer device capable of placing the bags accumulated against the stop onto a further conveying path of the feed conveyor assembly, wherein the said further conveying path has a second conveying direction extending substantially perpendicular to the first conveying direction.

6. (Previously Presented) An apparatus according to claim 5, wherein the further conveying path comprises a collecting belt, having a first feed end and a first discharge end, and a retracting belt, wherein the retracting belt is movable in the second conveying direction, such that a discharge end thereof can be introduced into the loading unit.

7. (Previously Presented) An apparatus according to claim 6, wherein, at each of the first feed end and the first discharge end of the collecting belt, a side plate is included, the side plate being pivotable from a horizontal position with respect to the collecting belt into a vertical position with respect to the collecting belt.

8. (Previously Presented) An apparatus according to claim 6, wherein a discharge end of the collecting belt is arranged so as to be movable up and down, so that the bags can be stacked in an overlapping manner in the second conveying direction as well.

9. (Canceled)

10. (Previously Presented) An apparatus according to claim 1, wherein the holder is provided with an open side via which the holder is loadable from a further conveying path, wherein a bottom of the holder is formed by a flexible curtain which can be pulled away from the bottom.

11. (Previously Presented) An apparatus according to claim 10, wherein the flexible curtain comprises two curtain parts which are movable from a closed position from a middle of the bottom of the holder away from each other for removing the bottom of the holder, such that a layer of bags can be released from the middle of the bottom of holder.

12. (Canceled).

13. (Currently Amended) An apparatus according to claim 1 further comprising at least one sensor for determining a distance between a bottom of the holder and a bottom of the container, wherein the at least one sensor is a mechanical sensor.

14. (Canceled).

15. (Previously Presented) An apparatus according to claim 1, wherein, below the loading unit, a conveying system for containers extends.

16-18. (Canceled).

19. (Previously Presented) An apparatus according to claim 4, wherein:

the feed conveyor assembly is provided with a stop against which the bags butt after the bags have been conveyed over the feed conveyor assembly in a first direction, wherein, viewed in a first conveying direction, upstream of the stop, the apparatus includes a transfer device capable of placing the bags accumulated against the stop onto a further conveying path of the feed conveyor assembly, wherein the said further conveying path has a second conveying direction extending substantially perpendicular to the first conveying direction;

the further conveying path comprises a collecting belt and a retracting belt, wherein the retracting belt is movable in the second conveying direction, such that a discharge end thereof can be introduced into the loading unit; and

at each of the first feed end and the first discharge end of the collecting belt, a side plate is included, the side plate being pivotable from a horizontal position with respect to the collecting belt into a vertical position with respect to the collecting belt.

20. (Previously Presented) An apparatus according to claim 7, wherein a discharge end of the collecting belt is arranged so as to be movable up and down, so that the bags can be stacked in an overlapping manner in the second conveying direction as well.

21. (Previously Presented) An apparatus according to claim 19, wherein:

the holder is provided with an open side via which the holder is loadable from the further conveying path, wherein a bottom of the holder is formed by a flexible curtain which can be pulled away from the bottom;

the flexible curtain comprises two curtain parts which are movable from a closed position from a middle of the bottom of the holder away from each other for removing the bottom of the holder, such that a layer of bags can be released from the middle of the bottom of holder;

below the loading unit, a conveying system for containers extends.

22. (Previously Presented) An apparatus according to claim 20, wherein:

the holder is provided with an open side via which the holder is loadable from the further conveying path, wherein a bottom of the holder is formed by a flexible curtain which can be pulled away from the bottom;

the flexible curtain comprises two curtain parts which are movable from a closed position from a middle of the bottom of the holder away from each other for removing the bottom of the holder, such that a layer of bags can be released from the middle of the bottom of holder; and

below the loading unit, a conveying system for containers extends.

23. (Canceled).